TTCAGGCAATTTCCCTGAGAACCGTTTACTTCCAGAAGATTGGTGGAGCTTGATCTGAAGGCTGGCCATGAAATCTCAAG 160

M K S 0

GTCAACATTGGTATTCCAGTTCAGATAAAAACTGTAAAGTGAGCTTTCGTGAGAAGCTTCTGATTATTGATTCAAACCTG 240 GOHWYSSSDKNCKVSFREKLLIIDSNL GGGGTCCAAGATGTGGAGAACCTCAAGTTTCTCTGCATAGGATTGGTCCCCAACAAGAAGCTGGAGAAGTCCAGCTCAGC 320 GVODVENLKFLCIGLVPNKKLEKSSSA SDVFEHLLAEDLLSEEDPFFLAELLY TCATACGGCAGAAGAAGCTGCTGCAGCACCTCAACTGTACCAAAGAGGAAGTGGAGCGACTGCTGCCCACCCGACAAAGG 480 TIROKKLLOHLNCTKEEVERLLPTROR V S L F R N L L Y E L S E G I D S E N L K D M I F L L GAAAGACTCGCTTCCCAAAACTGAAATGACCTCCCTAAGTTTCCTGGCATTTCTAGAGAAACAAGGTAAAATAGATGAAG 640 K D S L P K T E M T S L S F L A F L E K Q G K I D E ATAATCTGACATGCCTGGAGGACCTCTGCAAAACAGTTGTACCTAAACTTTTGAGAAACATAGAGAAATACAAAAGAGAG 720 D N L T C L E D L C K T V V P K L L R N I E K Y K R E AAAGCTATCCAGATAGTGACACCTCCTGTAGACAAGGAAGCCGAGTCGTATCAAGGAGAAGAACTAGTTTCCCAAAC 800 KAIOIVTPPVDKEAESYOGEEELVSQT

Fig. 1A

AGATGTTAAGACATTCTTGGAAGCCTTACCGAGGGCAGCTGTGTACAGGATGAATCGGAACCACAGAGGCCTCTGTGTCA 880 DVKTFLEALPRAAVYRMNRNHRGLCV TTGTCAACAACCACAGCTTTACCTCCCTGAAGGACAGGACAAGGAACCCATAAAGATGCTGAGATCCTGAGTCATGTGTTC 960 IVNNHSFTSLKDRQGTHKDAEILSHVF CAGTGGCTTGGGTTCACAGTGCATATACACAATAATGTGACGAAAGTGGAAATGGAGATGGTCCTGCAGAAGCAGAAGTG 1040 QWLGFTVHIHNNVTKVEMEMVLQKQKC CAATCCAGCCCATGCCGACGGGGACTGCTTCGTGTTCTGTATTCTGACCCATGGGAGATTTGGAGCTGTCTACTCTTCGG 1120 N P A H A D G D C F V F C I L T H G R F G A V Y S S ATGAGGCCCTCATTCCCATTCGGGAGATCATGTCTCACTTCACAGCCCTGCAGTGCCCTAGACTGGCTGAAAAACCTAAA 1200 D E A L I P I R E I M S H F T A L Q C P R L A E K P K CTCTTTTTCATCCAGGCCTGCCAAGGTGAAGAGATACAGCCTTCCGTATCCATCGAAGCAGATGCTCTGAACCCTGAGCA 1280 L F F I Q A C Q G E E I Q P S V S I E A D A L N P E Q GGCACCCACTTCCCTGCAGGACAGTATTCCTGCCGAGGCTGACTTCCTACTTGGTCTGGCCACTGTCCCAGGCTATGTAT 1360 A P T S L Q D S I P A E A D F L L G L A T V P G Y V CCTTTCGGCATGTGGAGGAAGGCAGCTGGTATATTCAGTCTCTGTGTAATCATCTGAAGAAATTGGTCCCAAGACATGAA 1440 S F R H V E E G S W Y I Q S L C N H L K K L V P R H E GACATCTTATCCATCCTCACTGCTGTCAACGATGATGTGAGTCGAAGAGGTGGACAAACAGGAACAAAGAAACAGATGCC 1520 DILSILTAVNDDVSRRVDKQGTKKQMP CCAGCCTGCTTTCACACTAAGGAAAAAACTAGTATTCCCTGTGCCCCTGGATGCACTTTCAATATAGCAGAGAGTTTTTG 1600 Q P A F T L R K K L V F P V P L D A L S I NTGGTTCTTAGACCTCAAACGAATCATTGGGNTATAACCTCCAGCCTCCTGCCCAGCACAGGAATCGGTGGTCTCCACCTG 1680

TCATTCTAGAAACAGGAAAC 1700

CTGAGGAATACCAGTGGGCAAGAGAATTAGCATTTCTGGAGCATCTGCTGTCTGAGCAGCCCCTGGGTGCGTCCACTTTC 160 TGGGCACGTGAGGTTGGGCCCTTGGCCGCCTGAGCCCTTGAGTTGGTCACTTGAACCTTGGGAAATATTGAGATTATATTCT 240 CCTGCCTTTTAAAAAGATGGACTTCAGCAGAAATCTTTATGATATTGGGGAACAACTGGACAGTGAAGATCTGGCCTCCC 320 M D F S R N L Y D I G E Q L D S E D L A S TCAAGTTCCTGAGCCTGGACTACATTCCGCAAAGGAAGCAAGAACCCATCAAGGATGCCTTGATGTTATTCCAGAGACTC 400 LKFLSLDYIPQRKQEPIKDALMLFQRL QEKRMLEESNLSFLKELLFRINRLDLL ITYLNTRKEEMERELQTPGRAQISAY GGTTCCACTTCTGCCGCATGAGCTGGGCTGAAGCAAACAGCCAGTGCCAGACACAGTCTGTACCTTTCTGGCGGAGGGTC 640 R F H F C R M S W A E A N S Q C Q T Q S V P F W R R V GATCATCTATTAATAAGGGTCATGCTCTATCAGATTTCAGAAGAAGTGAGCAGATCAGAATTGAGGTCTTTTAAGTTTCT 720 DHLLIRVMLYQISEEVSRSELRSFKFL TTTGCAAGAGGAAATCTCCAAATGCAAACTGGATGATGACATGAACCTGCTGGATATTTTCATAGAGATGGAGAAGAGGG 800 LQEEISKCKLDDDMNLLDIFIEMEKR TCATCCTGGGAGAAGGAAAGTTGGACATCCTGAAAAGAGTCTGTGCCCAAATCAACAAGAGCCTGCTGAAGATAATCAAC 880 VILGEGKLDILKR V CAQINK SLLKIIN GACTATGAAGAATTCAGCAAAGGGGAGGAGTTGTGTGGGGTAATGACGATGTCGGACTGTCCAAGAGAACAGGATAGTGA 960 D Y E E F S K G E E L C G V M T M S D C P R E Q D S E

Fig. 2A

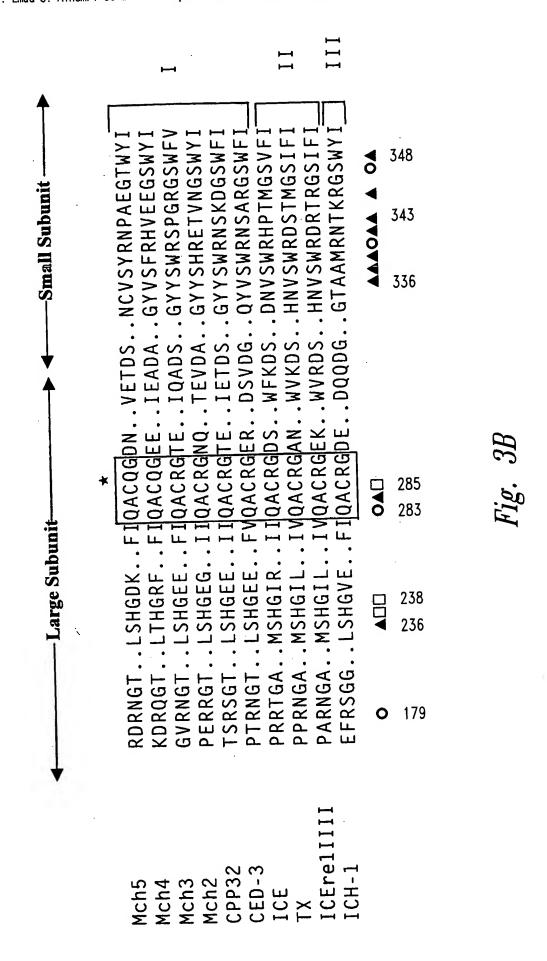
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TCACCGCAAGCTCCGCCTCCCGGGTTCAGGCCATTCTCCTGCT 1883

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FK.KLE.	Consensus
1 MDPFLVLLHSVSSLSSELTELKFLCLGRVGKRKLER 1 V-SEREKLLIIDSNLGVODVENLKFLCIGLVPNKKLEK 1 SRNLYDIGEOLDSEDLASLKFLSIDYIPORKOEP 1 VSLERNLLYELSEGIDSENLKDMIFLLKDSLPKTEM 1 VDHLLIRVMLYQISEEVSRSELRSFKFLLQEEISKCKLDD	human FADD Mch4 A Mch5 A Mch4 B Mch5 B
ID.FL	Consensus
39 VOSGLDLFSMLLEONDLEPGHTELLRELLASLRRHDLLRR 38 SSSASDVFEHLLAEDLLSEEDPFFLAELLYIIROKKLLQH 35 IKDALMLFQRLQEKRMLEESNLSFLKELLFRINRLDLL 37TSLSFLAFLEKOGKIDEDNLTCLEDLCKTVVP-KLLRN 41 DMNLLDIFIEMEKRVILGEGKLDILKRVCAQINK-SLLK-	human FADD Mch4 A Mch5 A Mch4 B Mch4 B
	Consensus
79 VDDFEA 78 LN 73ITY 74 IEKYK 79I	human FADD Mch4 A Mch5 A Mch4 B

Fig. 3A



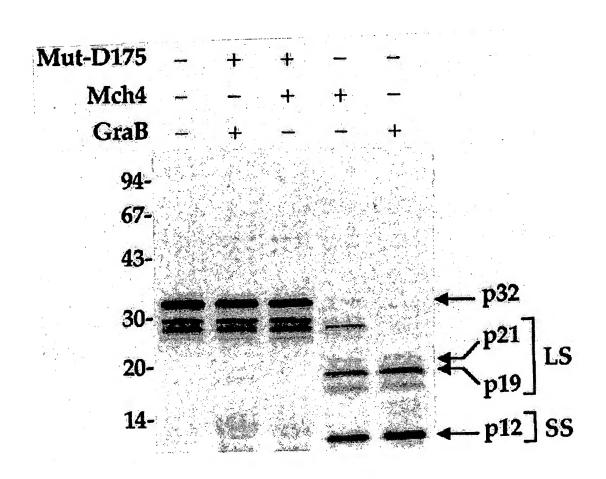


Fig. 4A

Title: MCH4 AND MCH5, APOPTOTIC PROTEASE, NUCLEIC ACIDS ENCODING AND METHODS OF USE

Docket No. 480140.424D1 Express Mail No. EV348172586US Inventor(s): Emad S. Alnemri et al.

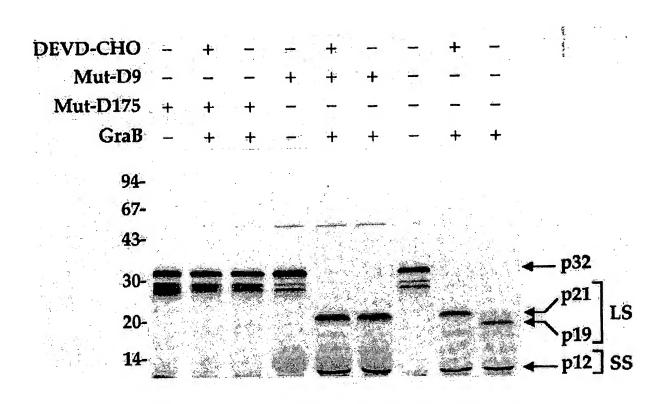


Fig. 4B

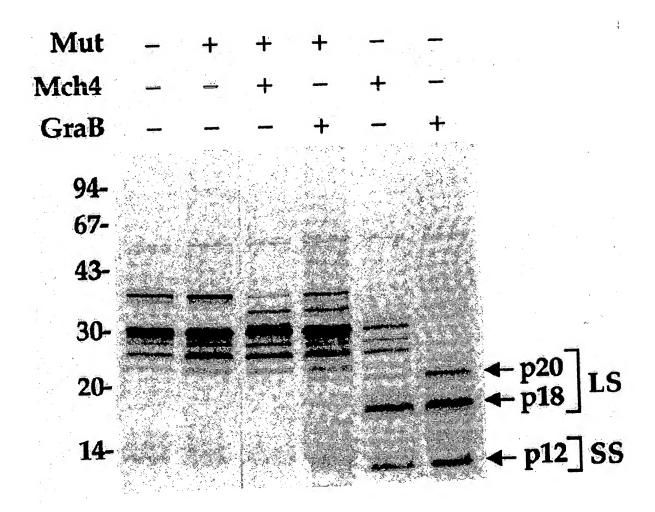


Fig. 5A

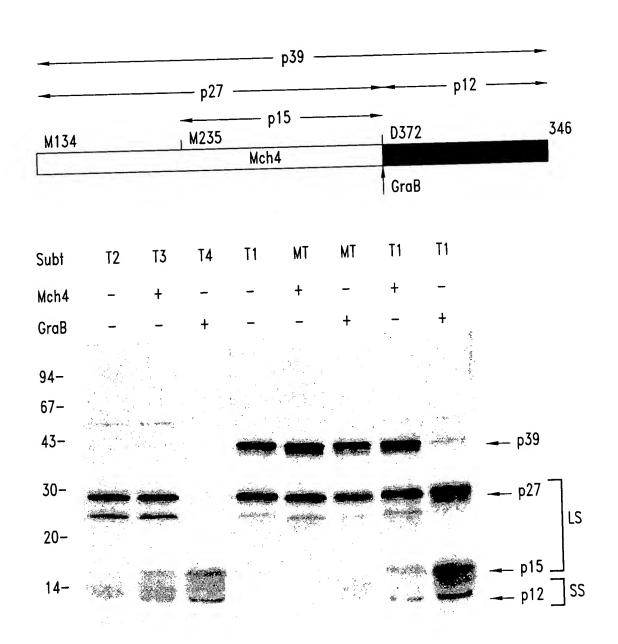


Fig. 5B

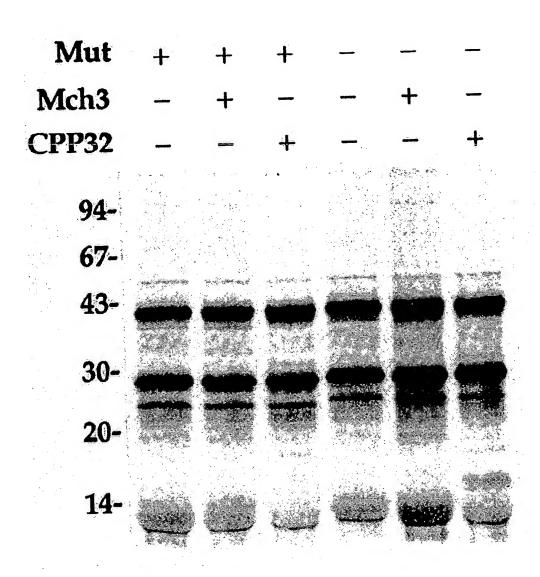
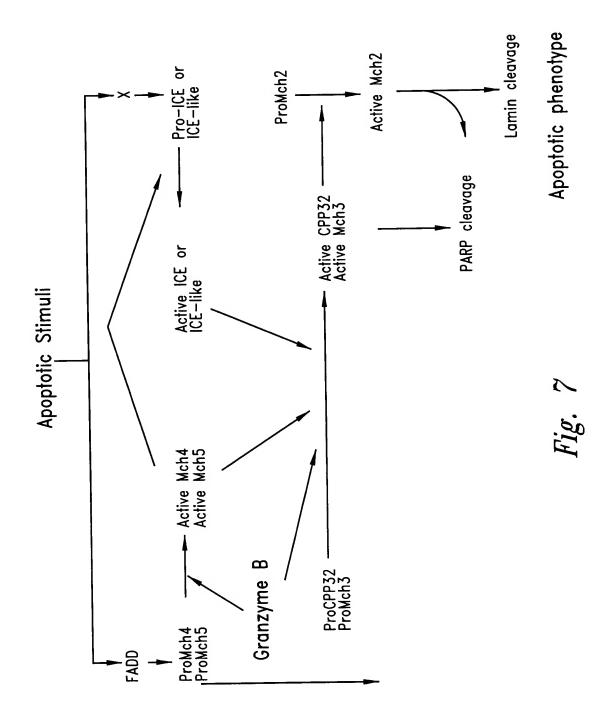


Fig. 6



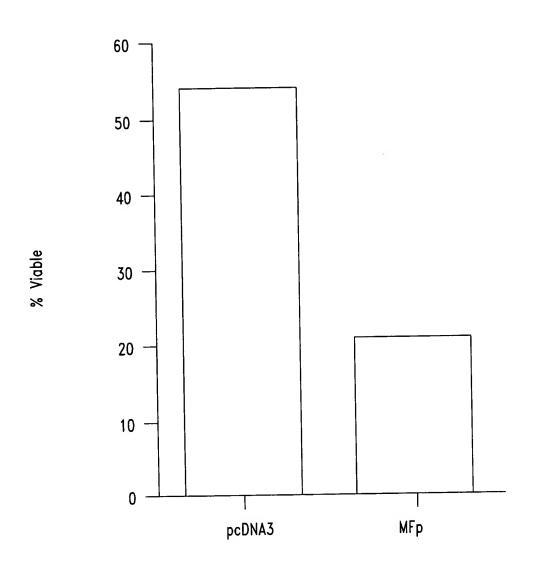


Fig. 8